

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 May 12 EXTEND option available in structure searching
NEWS 4 May 12 Polymer links for the POLYLINK command completed in REGISTRY
NEWS 5 May 27 New UPM (Update Code Maximum) field for more efficient patent
SDIs in CAPLUS
NEWS 6 May 27 CAPLUS super roles and document types searchable in REGISTRY
NEWS 7 Jun 22 STN Patent Forums to be held July 19-22, 2004
NEWS 8 Jun 28 Additional enzyme-catalyzed reactions added to CASREACT
NEWS 9 Jun 28 ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,
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NEWS 10 Jul 12 BEILSTEIN enhanced with new display and select options,
resulting in a closer connection to BABS

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:57:19 ON 14 JUL 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:57:28 ON 14 JUL 2004

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 13 JUL 2004 HIGHEST RN 709042-93-3
DICTIONARY FILE UPDATES: 13 JUL 2004 HIGHEST RN 709042-93-3

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

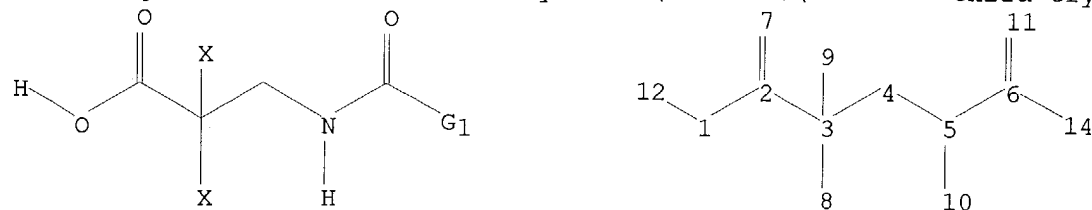
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Examination Auxillary files\09995987\09995987 third try.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 14

chain bonds :

1-2 1-12 2-3 2-7 3-4 3-8 3-9 4-5 5-6 5-10 6-11 6-14

exact/norm bonds :

4-5 5-6 6-11 6-14

exact bonds :

1-12 2-3 3-4 3-8 3-9 5-10

normalized bonds :

1-2 2-7

G1:C,O,S,N

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

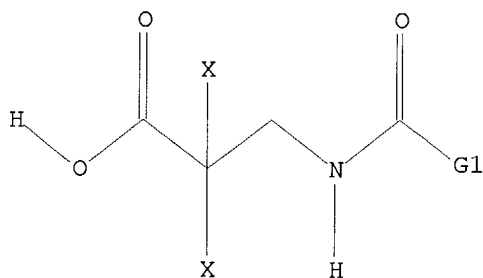
10:CLASS 11:CLASS 12:CLASS 14:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> search 11 sss sam

SAMPLE SEARCH INITIATED 11:57:56 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 21 TO ITERATE

100.0% PROCESSED 21 ITERATIONS
SEARCH TIME: 00.00.01

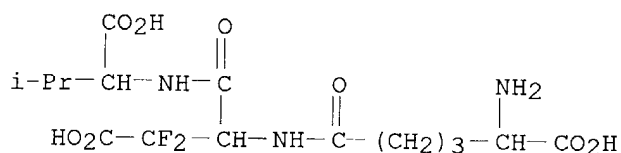
3 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 146 TO 694
PROJECTED ANSWERS: 3 TO 163

L2 3 SEA SSS SAM L1

=> d scan

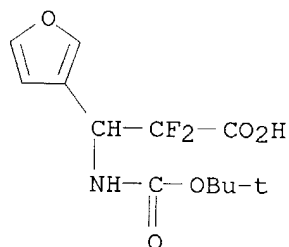
L2 3 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN D-Valine, N-[N-(5-amino-5-carboxy-1-oxopentyl)-3,3-difluoro-L- α -
aspartyl]-, (S)- (9CI)
MF C15 H23 F2 N3 O8



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

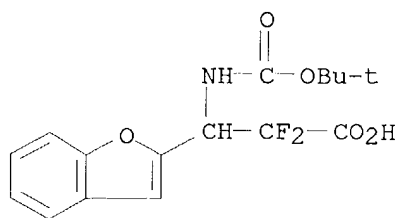
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L2 3 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 3-Furanpropanoic acid, β -[[[(1,1-dimethylethoxy)carbonyl]amino]-
 α,α -difluoro- (9CI)
MF C12 H15 F2 N O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 3 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Benzofuranpropanoic acid, β -[[[(1,1-dimethylethoxy)carbonyl]amino]-
 α,α -difluoro- (9CI)
MF C16 H17 F2 N O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search l1 sss full

FULL SEARCH INITIATED 11:58:27 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 508 TO ITERATE

100.0% PROCESSED 508 ITERATIONS

22 ANSWERS

SEARCH TIME: 00.00.01

L3

22 SEA SSS FUL L1

=> file c aplus

'C' IS AN AMBIGUOUS FILE OR CLUSTER NAME

CASLINK	- Linked CAS files (Predefined Search Sequences)
CASRNS	- CAS Registry Numbers Cluster
CHEMENG	- Chemical Engineering Cluster
CHEMISTRY	- Chemical Literature Cluster
COMPANIES	- Files for company based searches
COMPUTER	- Computer Science Cluster
CONSTRUCTION	- Building and Construction Cluster
CORPSOURCE	- Files for STNINDEX corporate source based searches
CURRENT	- Current file environment Cluster
CA	- The Chemical Abstracts File 1907-present
CABA	- CAB ABSTRACTS 1973-present
CANCERLIT	- Cancer Literature Online 1963-present
CAOLD	- The pre-1967 Chemical Abstracts File
CAPLUS	- The Chemical Abstracts Plus File 1907-present
CASREACT	- The Chemical Abstracts Reaction Search Service
CBNB	- Chemical Business NewsBase from 1984-present
CEABA-VTB	- Chem Eng and Biotech Abstr - Verfahrenstechn Ber 1966-
CEN	- Chemical & Engineering News 1990-January 2001
CERAB	- Ceramic Abstracts from 1976
CFR	- Code of Federal Regulations 1997 - present
CHEMCATS	- CHEMICAL CATALOGS ONLINE 1993-1997
CHEMINFORMRX	- The CHEMINFORMRX Reaction Search Service
CHEMLIST	- Regulated Chemicals Listing
CHEMSAFE	- CHEMSAFE - chemical safety information
CIN	- The Chemical Industry Notes File for 1974-present
CIVILENG	- Civil Engineering Abstracts 1966 to the present
COMPENDEX	- COMPENDEX*PLUS File from 1970 - present
COMPUAB	- Computer & Information Systems Abstracts 1981-present
COMPUSCIENCE	- COMPUTERSCIENCE FROM 1972-2002

ENTER FILE OR CLUSTER NAME (IGNORE):end

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

155.84 156.05

FILE 'CAPLUS' ENTERED AT 11:58:56 ON 14 JUL 2004
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FILE COVERS 1907 - 14 Jul 2004 VOL 141 ISS 3
FILE LAST UPDATED: 13 Jul 2004 (20040713/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 13

L4 14 L3

=> d 14 1-14 ti

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

TI Preparation of carboxylic acid derivatives that inhibit the binding of integrins to their receptors

L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

TI Preparation of ureidomethylbenzoylaminodifluoropropionates as glucagon antagonists/inverse agonists.

L4 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

TI Preparation of 3-(N'-oxodihydropyridinylureido)-3-phenylpropanoates as inhibitors of $\alpha 4 \beta 1$ integrin binding

L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

TI Synthesis of N,N-disubstituted peptide amides for selectively inhibiting the binding of $\alpha 4 \beta 1$ integrin

L4 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

TI Preparation of β -amino acid derivatives that inhibit the binding of integrins to their receptors

L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

TI Synthesis and evaluation of water-soluble non-prodrug analogs of docetaxel bearing sec-aminoethyl group at the C-10 position

L4 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

TI Synthesis and structure-activity relationships of novel 2',2'-difluoro analogs of docetaxel

L4 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

TI Preparation of baccatin III derivatives as antitumors

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

TI Preparation of baccatin III derivatives as antitumors

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Preparation of taxol derivatives as antitumors

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Preparation of deacetoxytaxol derivatives as potential antitumors

L4 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Preparation of taxol derivatives as antitumors

L4 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Isopenicillin N synthase: a new mode of reactivity

L4 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Isopenicillin N synthase: a new mode of reactivity

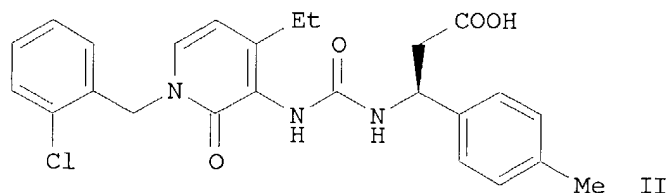
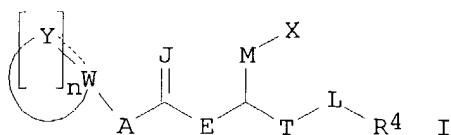
=> d l4 1-5 ti fbib abs

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Preparation of carboxylic acid derivatives that inhibit the binding of
 integrins to their receptors
 AN 2004:269913 CAPLUS
 DN 140:287277
 TI Preparation of carboxylic acid derivatives that inhibit the binding of
 integrins to their receptors
 IN Biediger, Ronald J.; Chen, Qi; Decker, E. Radford; Holland, George W.;
 Kassir, Jamal M.; Li, Wen; Market, Robert V.; Scott, Ian L.; Wu, Chengde;
 Li, Jian
 PA USA
 SO U.S. Pat. Appl. Publ., 98 pp., Cont.-in-part of U.S. Ser. No. 707,068.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004063955	A1	20040401	US 2001-973142	20011009
				US 1999-132971PP	19990507
				US 2000-565920 A2	20000505
				US 2000-707068 A2	20001106
	ZA 2001008777	A	20030124	ZA 2001-8777	20011024
				US 2000-707068 A	20001106
	NZ 515252	A	20040130	NZ 2001-515252	20011102
				US 2000-707068 A	20001106
				US 2001-973142 A	20011009
	NO 2001005394	A	20020507	NO 2001-5394	20011105
				US 2000-707068 A	20001106
				US 2001-973142 A	20011009
	EP 1203766	A2	20020508	EP 2001-125494	20011106
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
				US 2000-707068 A	20001106
				US 2001-973142 A	20011009
	TR 200103179	A2	20020621	TR 2001-200103179	20011106
				US 2000-707068 A	20001106
				US 2001-973142 A	20011009
	CN 1412181	A	20030423	CN 2001-145182	20011229
				US 2001-973142 A	20011009
	JP 2003119181	A2	20030423	JP 2002-31953	20020208
				US 2001-973142 A	20011009

PATENT FAMILY INFORMATION:
 FAN 2000:814302

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000067746	A1	20001116	WO 2000-US12303	20000505
	WO 2000067746	C2	20020829		
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
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	EP 1176956	A1	20020206	US 1999-132971PP	19990507
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO		EP 2000-937527	20000505
				US 1999-132971PP	19990507
				WO 2000-US12303W	20000505
TR	200103178	T2	20020521	TR 2001-200103178	20000505
SI	20744	C	20020630	US 1999-132971PP	19990507
				SI 2000-20021	20000505
				US 1999-132971PP	19990507
				WO 2000-US12303W	20000505
BR	2000010293	A	20020716	BR 2000-10293	20000505
				US 1999-132971PP	19990507
				WO 2000-US12303W	20000505
TR	200201920	T2	20020923	TR 2002-200201920	20000505
JP	2002544161	T2	20021224	US 1999-132971PP	19990507
				JP 2000-616772	20000505
				US 1999-132971PP	19990507
				WO 2000-US12303W	20000505
NZ	515248	A	20040130	NZ 2000-515248	20000505
				US 1999-132971PP	19990507
				WO 2000-US12303W	20000505
ZA	2001008774	A	20030124	ZA 2001-8774	20011024
				US 1999-132971PP	19990507
NO	2001005418	A	20011221	NO 2001-5418	20011106
				US 1999-132971PP	19990507
				WO 2000-US12303W	20000505
FAN	2002:349146				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1203766	A2	20020508	EP 2001-125494	20011106
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
				US 2000-707068 A	20001106
				US 2001-973142 A	20011009
US	2004063955	A1	20040401	US 2001-973142	20011009
				US 1999-132971PP	19990507
				US 2000-565920 A2	20000505
				US 2000-707068 A2	20001106
ZA	2001008777	A	20030124	ZA 2001-8777	20011024
				US 2000-707068 A	20001106
OS	MARPAT 140:287277				
GI					



AB The invention relates to a method for the inhibition of the binding of $\alpha 4 \beta 1$ integrin to its receptors [e.g., VCAM-1 (vascular cell adhesion mol.-1) and fibronectin], compds. that inhibit this binding, and the use of such compds. for the control or prevention of diseases states in which $\alpha 4 \beta 1$ is involved. The claims include compds. of general formula I [n is 3-10; Y is CO, N, CR1, CR2R3, NR5, CH, O, S; A is O, S, CR16R17, NR6; E is CH2, O, S, NR7; J is O, S, NR8; T is CO, (CH2)0-3; M is R9R10, (CH2)0-3; L is O, NR11, S, (CH2)0-1; X is CO2B, PO3H2, SO3H, SO2NH2, SO2NHCOR12, OPO3H2, CONHCOR13, CONHSO2R14, OH, tetrazolyl, H; W is C, CR15, N; B, R1-R17 are H, halo, alkyl, alkoxy, acyl, CF3, CO2H, etc.]. Thus, pyridine-containing 3-aminopropionic acid derivative II was prepared by a multistep procedure and showed IC50 = 10 nM in a fibronectin inhibition assay.

L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Preparation of ureidomethylbenzoylaminodifluoropropionates as glucagon antagonists/inverse agonists.
 AN 2002:391685 CAPLUS
 DN 136:385945
 TI Preparation of ureidomethylbenzoylaminodifluoropropionates as glucagon antagonists/inverse agonists.
 IN Jorgensen, Anker Steen; Madsen, Peter
 PA Novo Nordisk A/S, Den.
 SO PCT Int. Appl., 85 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002040446	A1	20020523	WO 2001-DK760	20011115
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	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
				DK 2000-1733	A 20001117
	AU 2002023502	A5	20020527	AU 2002-23502	20011115

EP 1345891 A1 20030924 DK 2000-1733 A 20001117
 WO 2001-DK760 W 20011115
 EP 2001-996529 20011115
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 JP 2004513936 T2 20040513 DK 2000-1733 A 20001117
 WO 2001-DK760 W 20011115
 JP 2002-542774 20011115
 DK 2000-1733 A 20001117
 WO 2001-DK760 W 20011115
 US 2003027849 A1 20030206 US 2001-995987 20011116
 DK 2000-1733 A 20001117
 US 2000-252322PP 20001120
 OS MARPAT 136:385945
 AB HO₂CCF₂CH₂NHCOZCHR₂N(E)XD [R₂ = H, alkyl; Z = (substituted) arylene,
 heteroarylene; X = (CH₂)_q(CR₁₂R₁₃)_r(CH₂)_s, CO(CR₁₂R₁₃)_r(CH₂)_s,
 NR₁₁CO(CR₁₂R₁₃)_r(CH₂)_s, etc.; r = 0, 1; s = 0-3; R₁₁, R₁₂, R₁₃ = H,
 alkyl; D = (substituted) Ph, naphthyl, pyridyl, indenyl, benzothienyl,
 thienyl, furyl, benzofuryl, etc.; E = (substituted) cyclohexyl, Ph, PhCH₂,
 PhCH₂CH₂, indanyl, benzhydryl, etc.], were prepared Thus, Me
 4-[(4-cyclohex-1-enylphenylamino)methyl]benzoate (preparation given) in CH₂Cl₂
 containing diisopropylethylamine was treated with 3,5-dichlorophenyl
 isocyanate to give a residue which was saponified with LiOH. The resulting
 acid in DMF was treated with 3-[(dimethyliminium)(dimethylamino)methyl]-
 1,2,3-benzotriazol-1-ium-1-olate hexafluorophosphate,
 diisopropylethylamine, Me 3-amino-2,2-difluoropropionate hydrochloride to
 give the uncharacterized amide ester, which was saponified with aqueous LiOH in
 THF/MeOH to give 3-[4-[1-(4-cyclohex-1-enylphenyl)-3-(3,5-
 dichlorophenyl)ureidomethyl]benzoylamino]-2,2-difluoropropionic acid. In
 a human glucagon receptor binding assay, title compds. showed IC₅₀<1000
 nM.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Preparation of 3-(N'-oxodihydropyridinylureido)-3-phenylpropanoates as
 inhibitors of α 4 β 1 integrin binding
 AN 2002:349146 CAPLUS
 DN 136:369608
 TI Preparation of 3-(N'-oxodihydropyridinylureido)-3-phenylpropanoates as
 inhibitors of α 4 β 1 integrin binding
 IN Biediger, Ronald J.; Chen, Qi; Holland, George W.; Kassir, Jamal M.; Li,
 Wen; Market, Robert V.; Scott, Ian L.; Wu, Chengde; Decker, Radford E.;
 Li, Jian
 PA Texas Biotechnology Corporation, USA
 SO Eur. Pat. Appl., 131 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1203766	A2	20020508	EP 2001-125494	20011106
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			US 2000-707068 A	20001106
				US 2001-973142 A	20011009
	US 2004063955	A1	20040401	US 2001-973142	20011009
				US 1999-132971PP	19990507
				US 2000-565920 A2	20000505
				US 2000-707068 A2	20001106
	ZA 2001008777	A	20030124	ZA 2001-8777	20011024
				US 2000-707068 A	20001106

PATENT FAMILY INFORMATION:

FAN 2000:814302

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000067746	A1	20001116	WO 2000-US12303	20000505
	WO 2000067746	C2	20020829		
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	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
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EP	1176956	A1	20020206	EP 2000-937527	20000505
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				WO 2000-US12303W	20000505
TR	200103178	T2	20020521	TR 2001-200103178	20000505
				US 1999-132971PP	19990507
SI	20744	C	20020630	SI 2000-20021	20000505
				US 1999-132971PP	19990507
				WO 2000-US12303W	20000505
BR	2000010293	A	20020716	BR 2000-10293	20000505
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FAN	2004:269913				
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PI	US 2004063955	A1	20040401	US 2001-973142	20011009
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				US 2001-973142 A	20011009
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				US 2000-707068 A	20001106
				US 2001-973142 A	20011009
TR	200103179	A2	20020621	TR 2001-200103179	20011106

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 US 2001-973142 A 20011009
 CN 1412181 A 20030423 CN 2001-145182 20011229
 US 2001-973142 A 20011009
 JP 2003119181 A2 20030423 JP 2002-31953 20020208
 US 2001-973142 A 20011009

OS MARPAT 136:369608
 AB Title compds. were prepared Thus, 2-ClC₆H₄CH₂ZNH₂ (Z = 4-ethyl-2-oxo-1,2-dihydropyridine-1,3-diyl) (preparation given) was condensed with (S)-4-MeC₆H₄CH(NH₂)CH₂CO₂Et and COCl₂ to give, after saponification, (S)-2-ClC₆H₄CH₂ZNHCONHCH(C₆H₄Me-4)CH₂CO₂H (Z as above). Data for biol. activity of title compds. were given.

L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Synthesis of N,N-disubstituted peptide amides for selectively inhibiting the binding of $\alpha 4\beta 1$ integrin
 AN 2001:145268 CAPLUS
 DN 134:193742
 TI Synthesis of N,N-disubstituted peptide amides for selectively inhibiting the binding of $\alpha 4\beta 1$ integrin
 IN Biediger, Ronald J.; Grabbe, Vanessa O.; Holland, George W.; Kassir, Jamal M.; Kogan, Timothy P.; Lin, Shuqun; Market, Robert V.; Raju, Bore G.; Scott, Ian L.; Wu, Chengde
 PA Texas Biotechnology Corporation, USA
 SO U.S., 30 pp., Cont.-in-part of U.S. Ser. No. 292,187.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6194448	B1	20010227	US 1999-417857	19991014
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	AU 759154	B2	20030410	AU 2000-66602	20001018
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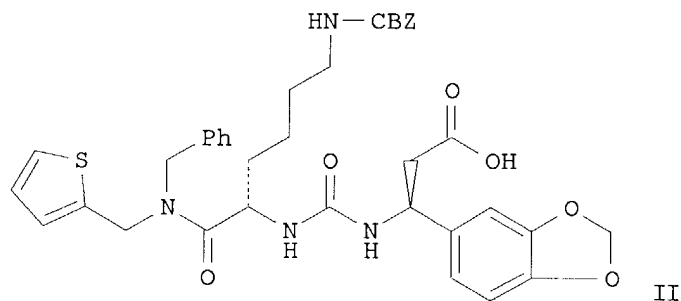
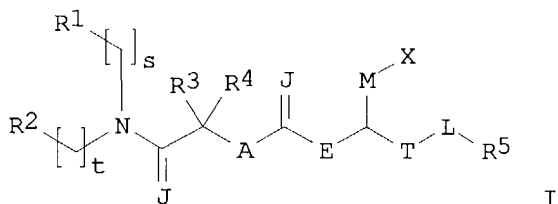
PATENT FAMILY INFORMATION:

FAN 1999:672529

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BR 9909626	A	20020115	TR 2001-20010014119990415
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NO 2000005162	A	20001215	BR 1999-9626 19990415
AU 759154	B2	20030410	US 1998-82019P P 19980416
AU 763115	B2	20030710	WO 1999-US8305 W 19990415
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			WO 1999-US8305 W 19990415
			AU 2000-66602 20001018
			AU 1999-35637 A319990415
			AU 2000-66601 20001018
			AU 1999-37483 A319990415
PI WO 9952898	A1	19991021	WO 1999-US8302 19990415
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NZ 507534	A	20020201	EP 1999-919856 19990415
JP 2002511463	T2	20020416	US 1998-82019P P 19980416
NO 2000005161	A	20001215	WO 1999-US8302 W 19990415
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AU 763115	B2	20030710	US 1998-82019P P 19980416
FAN 2001:521910			WO 1999-US8302 W 19990415
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			WO 1999-US8302 W 19990415
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			AU 1999-35637 A319990415
			AU 2000-66601 20001018
			AU 1999-37483 A319990415

PI	US 6262084	B1	20010717	US 1999-417886	19991014
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	US 6096773	A	20000801	US 1999-292459	A219990415
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				AU 2000-66601	20001018
				AU 1999-37483	A319990415
OS	MARPAT 134:193742				
GI					



AB Peptide amides I [A, J = O, S, or (un)substituted amino; E = CH₂, O, S, or (un)substituted amino; s, t = 0-3; T = CO, bond, CH₂, CH₂CH₂, or CH₂CH₂CH₂; L = O, S, (un)substituted amino, CH₂, or CH₂CH₂; M = bond or (un)substituted alkylene; X = H, CO₂H, carboxy ester, PO₃H₂, SO₃H, OPO₃H₂, C(O)NHC(O)R₁₂, C(O)NHSO₂R₁₃, oxazolyl, tetrazolyl, or H; R₁-R₅, R₁₂, R₁₃ = H, (cyclo)alkyl, aryl, heterocyclyl, etc.] were prepared as selective inhibitors of the binding of α₄β₁ integrin to its receptors, such as VCAM-1 (vascular cell adhesion mol.-1) and fibronectin. For example, thiophene-2-methylamine was coupled with benzaldehyde and the product used to amidate Boc-L-Lys(Cbz)-OH (Boc = tert-butoxycarbonyl, Cbz = benzyloxycarbonyl). Deprotection and acylation of the α-amino with (S)-Me 3-[[[p-nitrophenoxy)carbonyl]amino]-3-(1,3-benzodioxol-5-yl)propionate and deesterification yielded peptide II. Invention compds. were assayed for their ability to suppress binding using a 26-amino acid peptide containing the CS-1 sequence of fibronectin with N-terminal cysteine coupled to maleimide activated ovalbumin. Sixty of the test compds. inhibited cell adhesion by 99-100% at concns. of 100 μM and gave IC₅₀ values ranging from 0.0004 to 40.

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of β-amino acid derivatives that inhibit the binding of
integrins to their receptors
AN 2000:814302 CAPLUS

DN 133:362963
 TI Preparation of β -amino acid derivatives that inhibit the binding of
 integrins to their receptors
 IN Biediger, Ronald J.; Chen, Qi; Holland, George W.; Kassir, Jamal M.; Li,
 Wen; Market, Robert V.; Scott, Ian L.; Wu, Chengde
 PA Texas Biotechnology Corporation, USA
 SO PCT Int. Appl., 113 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 3

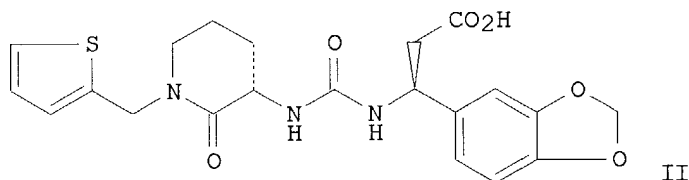
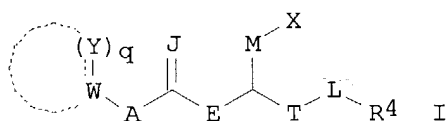
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NZ 515248	A	20040130		NZ 2000-515248	20000505
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ZA 2001008774	A	20030124		ZA 2001-8774	20011024
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NO 2001005418	A	20011221		NO 2001-5418	20011106
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PATENT FAMILY INFORMATION:

FAN 2002:349146

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PI	EP 1203766	A2	20020508	EP 2001-125494	20011106
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US 2004063955	A1	20040401		US 2000-565920 A2	20000505

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FAN	2004:269913			
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PI	US 2004063955	A1	20040401	US 2001-973142 20011009
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	ZA 2001008777	A	20030124	ZA 2001-8777 20011024
				US 2000-707068 A 20001106
	NZ 515252	A	20040130	NZ 2001-515252 20011102
				US 2000-707068 A 20001106
				US 2001-973142 A 20011009
	NO 2001005394	A	20020507	NO 2001-5394 20011105
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				US 2001-973142 A 20011009
	CN 1412181	A	20030423	CN 2001-145182 20011229
				US 2001-973142 A 20011009
	JP 2003119181	A2	20030423	JP 2002-31953 20020208
				US 2001-973142 A 20011009
OS	MARPAT 133:362963			
GI				



AB Title compds. I [Y, at each occurrence, independently = CO, N, CR1, CR2R3, NR5, CH, O, or S; q = 3-10; A = O, S, CR16R17, NR6; E = CH2, O, S, NR7; J = O, S, NR8; M = CR9R10 or (CH2)0-3; T = CO or (CH2)0-3; L = O, NR11, S, (CH2)0-1; X = CO2B, PO3H2, SO3H, SO2NH2, SO2NHCOR12, OPO3H2, CONHCOR13, CONHSO2R14, tetrazolyl, hydroxyl, H; W = C, CR15, N; B, R1-17 = H, halo, hydroxyl, alkyl, alkoxy, aliphatic acyl, CF3, nitro, cycloalkyl, alkylheteroaryl, sulfonyl, carboxyl, etc.] or their pharmaceutically acceptable salts were prepared for inhibition of the binding of $\alpha 4 \beta 1$ integrin to its receptors. Thus, II was prepared and assayed (IC50 = 0.2 μ M) for its ability to suppress binding using a

26-amino acid peptide containing the CS-1 sequence of fibronectin with
N-terminal cysteine coupled to maleimide activated ovalbumin.
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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NEWS 2	"Ask CAS" for self-help around the clock
NEWS 3 May 12	EXTEND option available in structure searching
NEWS 4 May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS 5 May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CPlus
NEWS 6 May 27	CPlus super roles and document types searchable in REGISTRY
NEWS 7 Jun 22	STN Patent Forums to be held July 19-22, 2004
NEWS 8 Jun 28	Additional enzyme-catalyzed reactions added to CASREACT
NEWS 9 Jun 28	ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)
NEWS 10 Jul 12	BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS EXPRESS	MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
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